



FW: Emailing: Trench Technology Data, AirVac - Sewer System - Bayside I, Design Matrix

Burke Janine L to: Owens Lynn

08/20/2012 12:09 PM

Cc: "CARRUOLO MARK A", "Todd Ravenelle", Michael Stover

History: This message has been replied to.

Lynn, please share this additional information with the Board with respect to the decision about whether or not to continue with the design of sewers for the Bayside neighborhoods. I would especially direct their attention to the Design Matrix which we hope will assist in decision-making.

With respect to funding, I have done an extensive search on grants.gov, as well as a national Foundation Directory with no luck. I have a call in to National Grid about possible cost-sharing but have not yet heard back.

Finally, we have more time than I originally thought to make this decision so we can go a little slower. Unless an on-site system has failed or the home owner plans to add bedrooms to the house, the homeowner need not replace their functioning cesspool until planned sewers are constructed (no later than January 1, 2020). However, we will need to have bond authorization in place by December 31, 2014. I understand RIDEM will be looking for a commitment to this project at some point in 2013 and will be writing the Mayor/City Council soon.

See attached information on the Cesspool Phaseout, which is the reason we need to make a decision, one way or the other, sometime soon.

-----Original Message-----

From: Todd Ravenelle [mailto:travenelle@graengs.com]
Sent: Thursday, August 16, 2012 11:18 AM
To: Burke Janine L
Cc: Alan Leveillee; Stover.Michael@epamail.epa.gov
Subject: Emailing: Trench Technology Data, AirVac - Sewer System - Bayside I, Design Matrix

Janine,

Attached is information for the board. I kept the information on the trench less technology brief and basic.

Your message is ready to be sent with the following file or link attachments:

Trench Technology Data
AirVac - Sewer System - Bayside I
Design Matrix

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.



Trench Technology Data.pdf



AirVac - Sewer System - Bayside I.pdf
Design Matrix.xlsx Email Opinion from EPA.txt Cesspool Phaseout.pdf



**Emailing: Trench Technology Data, AirVac - Sewer System - Bayside I,
Design Matrix**

Todd Ravenelle to: janine.l.burke

08/16/2012 11:21 AM

Cc: "Alan Leveillee", Michael Stover

History: This message has been replied to.

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Attached is information for the board. I kept the information on the trench less technology brief and basic.

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Trench Technology Data.pdf AirVac - Sewer System - Bayside I.pdf



Design Matrix.xlsx



Decision Matrix.xlsx

Burke Janine L to: Todd Ravenelle, Michael Stover, Alan D. Leveillee, Charlotte Taylor

Cc: "Solitro Mathew J", "Owens Lynn"

08/09/2012 03:23 PM

OK, so here's my shot at a draft "decision matrix" for sewerage Bayside.



Let me know what you think and don't be shy. . . Decision Matrix.xlsx



FW: Warwick Sewer Authority - Bayside Sewer Project, Flat Rate Submission

Todd Ravenelle to: janine.l.burke

07/23/2012 02:33 PM

Cc: Michael Stover, aleveillee

Michael,

Is the wording of their proposal in the proper context to be reimbursable through EPA?

Thanks

Todd Ravenelle, P.E.

Senior Vice President

Gordon R. Archibald, Inc.

Civil and Environmental Engineers

Pawtucket, Rhode Island 02860

Tel: 401.726.4084 | Fax: 401.728.1533

From: NITHPO Harris [mailto:dhnthpo@gmail.com]

Sent: Monday, July 23, 2012 2:01 PM

To: janine.l.burke@warwickri.com; travenelle@graengs.com

Cc: brwnjbb123@aol.com; imbabywoman@yahoo.com; Michael Stover

Subject: Warwick Sewer Authority - Bayside Sewer Project, Flat Rate Submission

Greetings, Janine and Todd:

Attached is the Flat Rate Submission. Please feel free to contact Nancy or me if you need further detailing.

Doug Harris, Preservationist for Ceremonial Landscapes / Deputy THPO



THP-EPA-Warwick Sewer Authority, Flat Rate, Machine Asisted Feature Identification 7-21-2012 (2).pdf



Warwick Sewer Authority - Bayside Sewer Project, Flat Rate Submission

NITHPO Harris to: janine.l.burke, travenelle

07/23/2012 02:02 PM

Cc: brwnjbb123, imbabywoman, Michael Stover

Greetings, Janine and Todd:

Attached is the Flat Rate Submission. Please feel free to contact Nancy or me if you need further detailing.

Doug Harris, Preservationist for Ceremonial Landscapes / Deputy THPO



THP-EPA-Warwick Sewer Authority, Flat Rate, Machine Asisted Feature Identification 7-21-2012 (2).pdf



FW: NITHPO-Warwick Sewer - Bayside

Burke Janine L to: dhnithpo

Cc: "Todd Ravenelle", Michael Stover

05/25/2012 01:43 PM

Hi Doug,

Thanks for getting that proposal to Todd. In order for me to properly consider it, I would like a little more information. For each "Representative" identified, could you please provide the following:

1. The name of the person you plan to assign;
2. The exact role or duties you anticipate for each of the Representatives. For example, what does the 200 hours for the Deputy THPO represent in terms of project-related work? Is it field work or meetings and coordination? You don't have to go crazy, I just need a sense of their responsibilities.

Thanks in advance and have a great weekend!

Janine

Janine L. Burke, Executive Director
Warwick Sewer Authority
125 Arthur W. Devine Boulevard
Warwick, RI 02886
(401) 738-0354
<http://www.warwickri.gov/wsa>



From: Todd Ravenelle [mailto:travenelle@graengs.com]

Sent: Tuesday, May 15, 2012 8:27 AM

To: Burke Janine L

Subject: NITHPO-Warwick Sewer - Bayside

Janine,

FYI

I am working to complete the proposal.

Todd Ravenelle, P.E.

Senior Vice President
Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island 02860
Tel: 401.726.4084 | Fax: 401.728.1533

From: NITHPO Harris [<mailto:dhnithpo@gmail.com>]
Sent: Tuesday, May 15, 2012 8:15 AM
To: travenelle@graengs.com
Subject: NITHPO-Warwick Sewer - Bayside

Greetings, Todd:

Attached please find the NITHPO Cost Proposal.

Doug Harris, Preservationist for Ceremonial Landscapes



THP-scan-Warwick Sewer - Bayside Cost Proposal, 5-15-12.pdf



FW: NITHPO-Warwick Sewer - Bayside

Burke Janine L to: Michael Stover

05/15/2012 08:31 AM

History:

This message has been forwarded.

Mike, what do you think about this?

From: Todd Ravenelle [mailto:travenelle@graengs.com]

Sent: Tuesday, May 15, 2012 8:27 AM

To: Burke Janine L

Subject: NITHPO-Warwick Sewer - Bayside

Janine,

FYI

I am working to complete the proposal.

Todd Ravenelle, P.E.

Senior Vice President

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Tel: 401.726.4084 | Fax: 401.728.1533

From: NITHPO Harris [mailto:dhnithpo@gmail.com]

Sent: Tuesday, May 15, 2012 8:15 AM

To: travenelle@graengs.com

Subject: NITHPO-Warwick Sewer - Bayside

Greetings, Todd:

Attached please find the NITHPO Cost Proposal.

Doug Harris, Preservationist for Ceremonial Landscapes



THP-scan-Warwick Sewer - Bayside Cost Proposal, 5-15-12.pdf



23 Pender Avenue

Burke Janine L to: jonathan.zwarg

Cc: "Owens Lynn", "Russ Chateauneuf", "Solitro Mathew J", Michael Stover

04/05/2012 04:02 PM

History: This message has been forwarded.

Hi Jon, I left you a message promising to send you more detailed information about the situation with 23 Pender Avenue.

The property is located in our **Bayside I** project area which is riddled with archaeological features (see attached). We have been making some excellent progress in our discussions with the Narragansett Indians and EPA to move the Bayside projects forward. If there is any area in the City that needs sewers, this is it. The concentration of houses, the small lot sizes, the groundwater and soil conditions all point to sewers as the best solution and I plan to keep pushing these projects.

The problem in this case is they had their cesspool inspected per the Cesspool Phaseout and it failed. The lot is less than 5,000 square feet so if they have to replace their system, it could be costly. I don't think they would have a problem installing a new system if they could be assured that they will get a good chunk of useful life out of it before we extend sewers and make them tie-in. Our enabling legislation allows for a deferral of payment on a sewer assessment if an on-site system was installed 7 years (or less) prior to sewers coming through. I have also used that logic to allow limited deferrals of mandatory sewer connections. I can put that in writing to them if they do indeed have to replace their system so everyone will be clear about what will happen when sewers are installed. But I was just wondering if there are any other options?

Janine L. Burke, Executive Director
Warwick Sewer Authority
125 Arthur W. Devine Boulevard
Warwick, RI 02886
(401) 738-0354
<http://www.warwickri.gov/wsa>





998DESGNMASTER10-09 Bayside.pdf



Bayside - Design Articles

Todd Ravenelle to: janine.l.burke

Cc: Michael Stover, mathew.j.solitro, aleveillee

03/28/2012 02:33 PM

Janine,

Attached is information on directional drilling and On-site Wastewater Treatment.

Todd Ravenelle, P.E.

Senior Vice President

Gordon R. Archibald, Inc.

Civil and Environmental Engineers

Pawtucket, Rhode Island 02860

Tel: 401.726.4084 | Fax: 401.728.1533



Bottomless Sand Filters.pdf DirectionalBoringSewerArticle.pdf



Low_Pressure_Sewer_System_for_Affluent_Existing_Neighborhood_permission.pdf



Fw: Research Memorandum Regarding NHPA - FOR INTERNAL USE ONLY

Leann Jensen to: Jackie Leclair, James Bourne, Jill Metcalf,
Rona Gregory, Michael Stover

03/05/2012 02:05 PM

History: This message has been forwarded.

CONFIDENTIAL
ATTORNEY-CLIENT PRIVILEGE

All -

As promised, attached below is the research memorandum and our back and forth re: federal involvement and the NHPA. Because this memo and the emails may not represent agency policy, please do not distribute this outside the Agency.

LeAnn
8-1072

----- Forwarded by Leann Jensen/R1/USEPA/US on 03/05/2012 01:44 PM -----

From: John Hultgren/R1/USEPA/US
To: Leann Jensen/R1/USEPA/US@EPA
Date: 09/10/2008 10:26 AM
Subject: Re: Research Memorandum Regarding NHPA

Leann-

Attached is a memo regarding Ken Moraff's follow up question to my previous memo: What is the tipping point at which partial funding, irrespective of agency control over the outcome of a project, does trigger NHPA?

John



NHPAThresholdMemoFinal.doc

Leann Jensen/R1/USEPA/US



Leann Jensen/R1/USEPA/US

06/26/2008 02:06 PM

To Ken Moraff/R1/USEPA/US@EPA

cc George Frantz/R1/USEPA/US@EPA, Jackie
Leclair/R1/USEPA/US@EPA, John
Hultgren/R1/USEPA/US@EPA, Lois
Adams/R1/USEPA/US@EPA, Pam
Hill/R1/USEPA/US@EPA, Stephen
Perkins/R1/USEPA/US@EPA

Subject Re: Research Memorandum Regarding NHPA

Ken-

As it turns out, OGC recently completed its NHPA research on the issues discussed in John's paper. On

the basis of his review of John's research and OGC's independent research, Tod Siegal, the OGC NHPA expert, apprised me yesterday that he is "very comfortable" with both the reasoning and conclusions reached in John's memo. In particular, he is very comfortable with John's conclusion that given the facts surrounding the most recent Narragansett NHPA matter, because of the lack of federal involvement and control in the Warwick Sewer Authority Bayside project, the project is not a federal undertaking and as a result, the Agency is not now obligated to initiate the NHPA section 106 consultation process.

In answer to the first point you've raised below, I would be happy to ask a law clerk/honors fellow to do additional research into the issue regarding the tipping point at which de minimis federal funding is sufficient to turn a non-federal undertaking into a federal undertaking. Please let me know if you would like ORC to commence this research.

In answer to your second point, please note that it appears that the Advisory Council on Historic Properties (ACHP) has agreed with the Region's position that the Bayside project is not a federal undertaking. In particular, I spoke with Tod Siegal yesterday regarding EPA's Office of Federal Activities' (OFA) conversation w/ the Advisory Counsel concerning the Narragansett matter. It is my understanding that Jamie Loichinger, the NHPA expert in OFA, spoke with John Eddins of the Advisory Counsel, and that Mr. Eddins now agrees with the Agency's position. Mr. Eddins may be writing us a letter to get additional factual information before he formally responds to the Narragansett THPO. As a result, Tod Siegal would like to speak with us on Monday, 6/30, to make sure we are on the same page factually and to agree on a way forward. Unfortunately, I'll be on vacation - I hope that you can attend this call.

In addition, I agree that the Advisory Council would be given Chevron deference by a court regarding its interpretation of its regulations. Note, however, that the ACHP regulations clearly make the "Agency Official" responsible for the determination of whether the federal agency's action is an undertaking, not the ACHP. 36 CFR 800.3(a). Similarly, the final rule and notice re: this regulation clearly states that the Agency Official, not the ACHP, makes this determination. 64 Fed. Reg. 27044, 27063 (May 18, 1999) ("The determination of whether or not an undertaking exists is the Agency Official's determination. The Council may render advice, but ultimately this remains a Federal agency decision. [emphasis added]"). As the result, I do not believe that court would give deference to the ACHP's determination on this issue.

Hope this is helpful.

LeAnn
8-1072

Ken Moraff/R1/USEPA/US

Ken Moraff/R1/USEPA/US

06/10/2008 08:13 AM

To Leann Jensen/R1/USEPA/US@EPA, John
Hultgren/R1/USEPA/US@EPA
cc Lois Adams/R1/USEPA/US@EPA, George
Frantz/R1/USEPA/US@EPA, Pam
Hill/R1/USEPA/US@EPA, Stephen
Perkins/R1/USEPA/US@EPA, Jackie
Leclair/R1/USEPA/US@EPA
Subject Re: Research Memorandum Regarding NHPA 📎

Thanks, Leann. The memo looks well-researched, and makes clear that there are arguments we could make that this project was not a federal undertaking, even in the design stage when federal money was being used. Thanks, John, for the work that went into this.

But I'm still left with the question: is there also a credible argument for the other side? Are there cases that go the other way, and if so, are they equally plausible? Is there a strong weight of law on one side or

the other? I'm not questioning the analysis in the memo -- there clearly are arguments available to us if we decide that consultation is not required in these circumstances. But I'm raising the issue for a couple of reasons:

(1) the cases seem inconsistent with the language of the regs (and the preamble says this language is drawn from the statute) -- where "undertaking" is defined as a project funded "in whole or in part" or "with Federal financial assistance". Clearly courts have interpreted this language to require additional federal involvement -- but is this universally true, or is there a line of decisions that partial funding does trigger NHPA?

(2) the preamble says agencies should seek the advice of the NHPA Council when in doubt as to whether its activity is an "undertaking," and apparently the Council's preliminary take on our situation is that it is an undertaking. How much weight do we need to give this view, if it holds up as their ultimate position?

If there are plausible arguments going both ways, then we have a policy judgment to make (obviously, not ours alone -- there are clearly national implications). I'm not convinced yet that we're in that situation. Maybe we've done enough research to know that the legal issue is pretty well settled, so there isn't a strong argument on the other side. And maybe the initial read from the NHPA Council was based on incomplete understanding of the situation. But I'd like to be more certain on both of those points before we conclude that consultation is not required.

Again, thanks for all the work that you and John have done, and I look forward to our continued discussion.

Ken

Leann Jensen/R1/USEPA/US



Leann Jensen/R1/USEPA/US

06/09/2008 06:12 PM

To Tod Siegal/DC/USEPA/US@EPA, Ken
Moraff/R1/USEPA/US@EPA
cc

Subject Research Memorandum Regarding NHPA

Tod & Ken-

As promised, attached for your review and comment is a legal memorandum prepared by R1 ORC regarding the applicability of NHPA consultation procedures to the Warwick Sewer Authority Bayside sewer extension project. Let me know what you think.

LeAnn



HultgrenNHPAMemo.doc



RE: FW: Emailing: Trench Technology Data, AirVac - Sewer System - Bayside I, Design Matrix

Burke Janine L to: Michael Stover

02/11/2013 10:38 AM

Cc: "Owens Lynn"

History: This message has been replied to.

Hi Mike, I sure hope so! The new Councilperson in that area wants to get this moving. And a recent strategy meeting with the Mayor and my Board Secretary indicate he is willing to move forward with some discussions and/or lobbying regarding funding to finish our sewer construction plans. That effort will be underway soon so stay tuned. . . your guidance and expertise will be needed.

From: Stover.Michael@epamail.epa.gov [mailto:Stover.Michael@epamail.epa.gov]
Sent: Monday, February 11, 2013 10:16 AM
To: Burke Janine L
Subject: Re: FW: Emailing: Trench Technology Data, AirVac - Sewer System - Bayside I, Design Matrix

Hi Janine,

Hope you are well... just curious if there is any update to the project, and Board decisions, and if there is a need to resume meetings...

Mike

From: "Burke Janine L" <janine.l.burke@warwickri.com>
To: "Owens Lynn" <lynn.owens@warwickri.com>
Cc: "CARRUOLO MARK A" <MARK.A.CARRUOLO@warwickri.com>, "Todd Ravenelle" <travenelle@graengs.com>, Michael Stover/R1/USEPA/US@EPA
Date: 08/20/2012 12:09 PM
Subject: FW: Emailing: Trench Technology Data, AirVac - Sewer System - Bayside I, Design Matrix

Lynn, please share this additional information with the Board with respect to the decision about whether or not to continue with the design of sewers for the Bayside neighborhoods. I would especially direct their attention to the Design Matrix which we hope will assist in decision-making.

With respect to funding, I have done an extensive search on grants.gov, as well as a national Foundation Directory with no luck. I have a call in to National Grid about possible cost-sharing but have not yet heard back.

Finally, we have more time than I originally thought to make this decision so we can go a little slower. Unless an on-site system has failed or the home owner plans to add bedrooms to the house, the homeowner need not replace their functioning cesspool until planned sewers are constructed (no later than January 1, 2020). However, we will need to have bond authorization in place by December 31, 2014. I understand RIDEM will be looking for a commitment to this project at some point in 2013 and will be writing the Mayor/City Council soon.

See attached information on the Cesspool Phaseout, which is the reason we need to make a decision, one way or the other, sometime soon.

-----Original Message-----

From: Todd Ravenelle [<mailto:travenelle@graengs.com>]
Sent: Thursday, August 16, 2012 11:18 AM
To: Burke Janine L
Cc: Alan Leveillee; Stover.Michael@epamail.epa.gov
Subject: Emailing: Trench Technology Data, AirVac - Sewer System - Bayside I, Design Matrix

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[attachment "Trench Technology Data.pdf" deleted by Michael Stover/R1/USEPA/US] [attachment "AirVac - Sewer System - Bayside I.pdf" deleted by Michael Stover/R1/USEPA/US] [attachment "Design Matrix.xlsx" deleted by Michael Stover/R1/USEPA/US] [attachment "Email Opinion from EPA.txt" deleted by Michael Stover/R1/USEPA/US] [attachment "Cesspool Phaseout.pdf" deleted by Michael Stover/R1/USEPA/US]



Re: Warwick Bayside Project: Onsite Septic Systems vs Sewer Collection and transmission 

David Chin to: Michael Stover

08/16/2012 01:58 PM

Thanks, Mike....looks fine with what it needs to accomplish on behalf of Janine.

Dave

Michael Stover

EPA is ME :) and WSA needs it by tomorrow.....

08/16/2012 01:41:40 PM

From: Michael Stover/R1/USEPA/US
To: David Chin/R1/USEPA/US@EPA

Date: 08/16/2012 01:41 PM

Subject: Re: Warwick Bayside Project: Onsite Septic Systems vs Sewer Collection and transmission

EPA is ME :) and WSA needs it by tomorrow.....

David Chin

Hi Mike: Looks okay to me.....I have a few comm...

08/16/2012 01:34:01 PM

Michael Stover

Hi Dave, I looked for Jamie to have him review t...

08/16/2012 12:45:32 PM



RE: Emailing: Trench Technology Data, AirVac - Sewer System - Bayside I, Design Matrix

Burke Janine L to: Michael Stover

08/16/2012 01:57 PM

Thanks, Mike this is great. If only you could come up with some money for us!!!

From: Michael Stover [mailto:Stover.Michael@epamail.epa.gov]
Sent: Thursday, August 16, 2012 1:54 PM
To: Burke Janine L
Cc: Alan Leveillee; Todd Ravenelle
Subject: Re: Emailing: Trench Technology Data, AirVac - Sewer System - Bayside I, Design Matrix

Hello Janine,

At the last Warwick sewer meeting on August 10th, EPA was asked to weigh in regarding the alternative of constructing new individual onsite septic systems in as an alternative to address the pressing environmental issues associated with the Bayside area in lieu of a community sewer collection and transmission system.

As you are well aware, the natural resources of the Narragansett and Greenwich Bay waters and watershed areas have been increasingly degraded by human activity within the confines of the watershed. To a large extent, this degradation is the result of increased nutrient loading in part from cesspools and septic systems that have caused algal blooms and bacterial contamination.

You are also aware that many homes and businesses in Warwick rely on cesspools and failing septic systems. The sandy soils conditions in Warwick also do not typically provide treatment or removal of nutrient pollutants such as nitrogen and phosphorous from these inadequate systems, especially along the critical coastal area of the proposed Bayside projects. In fact, DEM has estimated that about 50% of the nutrient pollution in Greenwich Bay is from cesspools and septic systems. Connection to the public sewer system will remove the major source of nutrient and bacterial pollution to these waters, which is the rationale behind the WSA's mandatory sewer connection program, and the basis for the WSA's intent to access EPA CWSRF funding. Constructing a sewer collection and transmission system in the Bayside project will significantly improve water quality within the Narragansett and Greenwich Bay watershed area by diverting wastewater from the homes to WSA's wastewater treatment system, including nutrient

treatment, before discharging into the Pawtuxet River.

The EPA believes that the construction of a sewer collection and transmission system serving the Bayside area, followed by treatment of the sewage through the WSA's wastewater treatment facility, is essential to the reversal of environmental degradation of the Narragansett and Greenwich Bay waters and the protection of public health. Replacement of cesspools and failing onsite septic systems with new onsite septic systems may address the public health threat posed by ponding sewage, but would not prevent the continuing migration of nutrients from the septic system leach fields through the sandy soils into the coastal waters, and therefore would not serve to reverse the environmental degradation of the coastal waters from nutrient pollutants. Therefore, the EPA would not be in favor of the construction of individual septic systems as a means of protecting the Narragansett and Greenwich Bay waters.

Please let me know if you have any additional questions.

CAPT Michael A. Stover, PE
Indian Program Manager
EPA - New England, Region 1
5 Post Office Square, Suite 100
Mail Code OEP06-3
Boston, MA 02109-3912
(617) 918-1123
stover.michael@epa.gov

From: "Todd Ravenelle" <travenelle@graengs.com>
To: <janine.l.burke@warwickri.com>
Cc: "Alan Leveillee" <Aleveillee@palinc.com>, Michael Stover/R1/USEPA/US@EPA
Date: 08/16/2012 11:21 AM
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Re: Warwick Bayside Project: Onsite Septic Systems vs Sewer Collection and transmission

David Chin to: Michael Stover

08/16/2012 01:34 PM

History: This message has been replied to.

Hi Mike:

Looks okay to me.....I have a few comments:

- just a minor thing....you can delete the "A" from CWASRF....CWSRF should suffice.
- when you state "EPA believes....".....is EPA you, a group of folks, Lois' Branch, etc... or have other groups in OEP been involved in the review of this project?....just curious.
- feel free to run this by Jamie, too (he's out until next Monday) if you can wait that long.

I am assuming WSA has already evaluated the proposed project and are willing to do the extension....how much will it cost?

Thanks.

Dave

Michael Stover

[Hi Dave, I looked for Jamie to have him review t...](#)

08/16/2012 12:45:32 PM

From: Michael Stover/R1/USEPA/US
To: David Chin/R1/USEPA/US@EPA
Date: 08/16/2012 12:45 PM
Subject: Warwick Bayside Project: Onsite Septic Systems vs Sewer Collection and transmission

Hi Dave,

I looked for Jamie to have him review this, but look to you, since it involves SRF... if you could provide comment, that would be great!

Mike

Hello Janine,

At the last Warwick sewer meeting on August 10th, EPA was asked to weigh in regarding the alternative of constructing new individual onsite septic systems in lieu of a community sewer collection and transmission system.

As you are well aware, the natural resources of the Narragansett and Greenwich Bay waters and watershed areas have been increasingly degraded by human activity within the confines of the watershed. To a large extent, this degradation is the result of increased nutrient loading in part from cesspools and septic systems that have caused algal blooms and bacterial contamination.

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The EPA believes that the construction of a sewer collection and transmission system serving the Bayside area, followed by treatment of the sewage through the WSA's wastewater treatment facility, is essential to the reversal of environmental degradation of the Narragansett and Greenwich Bay waters and the protection of public health. Replacement of cesspools and failing onsite septic systems with new onsite septic systems may address the public health threat posed by ponding sewage, but would not prevent the continuing migration of nutrients from the septic system leach fields through the sandy soils into the coastal waters, and therefore would not serve to reverse the environmental degradation of the coastal waters from nutrient pollutants. Therefore, the EPA would not be in favor of the construction of individual septic systems as a means to protect the Narragansett and Greenwich Bay waters.

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RE: Emailing: Trench Technology Data, AirVac - Sewer System - Bayside I, Design Matrix

Burke Janine L to: Todd Ravenelle

08/16/2012 12:27 PM

Cc: "Alan Leveillee", Michael Stover, "Owens Lynn"

Wow, this is excellent. And you made some major improvements to my little dinky "decision matrix" Thanks, Todd!

In addition to this information, I still need to speak with my NGrid contact to see if there's potential for sharing costs for the archaeological study.

I'm a sure this will generate more discussion at the Board meeting but I highly doubt they will pull the trigger this month. Like I said, come November there will be a new City Council and we may be in a position to advocate for and secure more bond authorization for sewer construction. I would really like to have a decision by early next year since the Cesspool Phaseout time clock will start ticking and residents will need to know what to do with their systems (i.e., limp along or replace).

-----Original Message-----

From: Todd Ravenelle [mailto:travenelle@graengs.com]
Sent: Thursday, August 16, 2012 11:18 AM
To: Burke Janine L
Cc: Alan Leveillee; Stover.Michael@epamail.epa.gov
Subject: Emailing: Trench Technology Data, AirVac - Sewer System - Bayside I, Design Matrix

Janine,

Attached is information for the board. I kept the information on the trench less technology brief and basic.

Your message is ready to be sent with the following file or link attachments:

Trench Technology Data
AirVac - Sewer System - Bayside I
Design Matrix

Note: To protect against computer viruses, e-mail programs may prevent

sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.



I Never Thought Of This. . .

Burke Janine L to: aleveillee

Cc: "Todd Ravenelle", "Solitro Mathew J", Michael Stover

08/07/2012 04:35 PM

Hey, Alan!

I was meeting with a Councilperson on an unrelated matter but the Bayside archaeological issues came up and the Councilperson mentioned about GPR which I learned stands for Ground Penetrating Radar. And just now I read an article about it in Trenchless Technology magazine.

Has GPR ever been used in the type of application we would be talking about if we wanted to see under the ground without digging??
Probably too good to be true, right?

Janine L. Burke, Executive Director
Warwick Sewer Authority
125 Arthur W. Devine Boulevard
Warwick, RI 02886
(401) 738-0354
<http://www.warwickri.gov/wsa>





Rescheduled: Bayside Sewers

Thu 08/09/2012 10:00 AM - 12:00

PM

Attendance is **required** for Michael Stover

Chair: **janine.l.burke@warwickri.com**

Location: WSA Conference Room

This reschedule notice has been applied to the meeting.

Required:

dhnithpo@gmail.com, imbabywoman@yahoo.com, Michael Stover/R1/USEPA/US,
charlotte.taylor@preservation.ri.gov, travenelle@graengs.com, aleveillee@palinc.com,
lynn.owens@warwickri.com,

Description

DAY CHANGE TO ACCOMMODATE CHARLOTTE AND DOUG

Interesting discussions at last night's Board meeting. Tough decision for the Board. The item was tabled until next month. I have been assigned numerous follow up items and would like to our little group together again before the next Board meeting. Let me know if this date and time doesn't work for you. Thanks to all of you for your commitment and patience with this process.



Re: Bayside Sewers

Charlotte Taylor to: Michael Stover, NITHPO Harris, Todd
Ravenelle, aleveillee, Burke Janine L,
Owens Lynn, imbabywoman

07/31/2012 11:27 AM

Hi Janine,

Would it be possible to meet on Thursday the 9th instead? I have a conflict with another meeting (that Doug, I believe, is planning on going to as well).

sorry, and thanks,

Charlotte

>>> Burke Janine L 7/27/2012 7:19 AM >>>

When: Friday, August 10, 2012 10:00 AM-10:30 AM (UTC-05:00)
Eastern Time (US & Canada).

Where: WSA Conference Room

Note: The GMT offset above does not reflect daylight saving time adjustments.

~~*~*~*~*~*~*~*~*

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Bayside Sewers

Thu 08/09/2012 10:00 AM - 12:00 PM

Attendance is **required** for Michael Stover

Chair: janine.l.burke@warwickri.com

Location: WSA Conference Room

Required:

dhnithpo@gmail.com, imbabywoman@yahoo.com, Michael Stover/R1/USEPA/US, charlotte.taylor@preservation.ri.gov, travenelle@graengs.com, aleveillee@palinc.com, lynn.owens@warwickri.com

Description

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Personal Notes



FW: Warwick Sewer Authority - Bayside Sewer Project, Flat Rate Submission

Todd Ravenelle to: dhnithpo

07/24/2012 07:42 AM

Cc: janine.l.burke, aleveillee, Michael Stover

Doug,

Could you modify your proposal narrative as follows. This will ensure funding is not denied by EPA.

(We would suggest adding in parentheses after Medicine Man and Woman, or in a separate sentence)

"The roles of Medicine Man and Medicine Woman are restricted to assisting in the data gathering and monitoring activities, specifically in the identification of cultural artifacts encountered during excavation that requires expertise beyond that of the NITHPO staff. The services of the Medicine Man and Medicine Woman will not be used for any ceremonial or repatriation exercises."

Thanks

Todd Ravenelle, P.E.
Senior Vice President
Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island 02860
Tel: 401.726.4084 | Fax: 401.728.1533



RE: Warwick Sewer Authority - Bayside Sewer Project, Flat Rate Submission

Burke Janine L to: Todd Ravenelle

07/23/2012 03:29 PM

Cc: Michael Stover, aleveillee

History:

This message has been replied to.

Mike?

From: Todd Ravenelle [<mailto:travenelle@graengs.com>]
Sent: Monday, July 23, 2012 3:12 PM
To: Burke Janine L
Cc: Stover.Michael@epamail.epa.gov; aleveillee@palinc.com
Subject: RE: Warwick Sewer Authority - Bayside Sewer Project, Flat Rate Submission

Janine,

I was more concerned about the listing of the medicine man and woman.

Todd Ravenelle, P.E.
Senior Vice President
Gordon R. Archibald, Inc.
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Pawtucket, Rhode Island 02860
Tel: 401.726.4084 | Fax: 401.728.1533

From: Burke Janine L [<mailto:janine.l.burke@warwickri.com>]
Sent: Monday, July 23, 2012 2:45 PM
To: Todd Ravenelle
Cc: Stover.Michael@epamail.epa.gov; aleveillee@palinc.com
Subject: RE: Warwick Sewer Authority - Bayside Sewer Project, Flat Rate Submission

All I saw was "monitoring" and "data gathering" so I think we are good.

From: Todd Ravenelle [<mailto:travenelle@graengs.com>]
Sent: Monday, July 23, 2012 2:30 PM
To: Burke Janine L
Cc: Stover.Michael@epamail.epa.gov; aleveillee@palinc.com
Subject: FW: Warwick Sewer Authority - Bayside Sewer Project, Flat Rate Submission

Michael,

Is the wording of their proposal in the proper context to be reimbursable through EPA?

Thanks

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Senior Vice President
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Civil and Environmental Engineers
Pawtucket, Rhode Island 02860
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From: NITHPO Harris [<mailto:dhnthpo@gmail.com>]
Sent: Monday, July 23, 2012 2:01 PM
To: janine.l.burke@warwickri.com; travenelle@graengs.com
Cc: brwnjbb123@aol.com; imbabywoman@yahoo.com; Michael Stover
Subject: Warwick Sewer Authority - Bayside Sewer Project, Flat Rate Submission

Greetings, Janine and Todd:

Attached is the Flat Rate Submission. Please feel free to contact Nancy or me if you need further detailing.

Doug Harris, Preservationist for Ceremonial Landscapes / Deputy THPO



RE: Warwick Sewer Authority - Bayside Sewer Project, Flat Rate Submission

Burke Janine L to: Todd Ravenelle

07/23/2012 02:45 PM

Cc: Michael Stover, aleveillee

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To: janine.l.burke@warwickri.com; travenelle@graengs.com

Cc: brwnjbb123@aol.com; imbabywoman@yahoo.com; Michael Stover

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Doug Harris, Preservationist for Ceremonial Landscapes / Deputy THPO



Bayside Project Meeting

Fri 07/13/2012 10:00 AM - 12:00 PM

Attendance is **required** for Michael Stover

Chair: janine.l.burke@warwickri.com

Location: WSA Conference Room

Required:

dhnithpo@gmail.com, travenelle@graengs.com, Michael Stover/R1/USEPA/US, Aleveillee@PALINC.COM, charlotte.taylor@preservation.ri.gov, mathew.j.solitro@warwickri.com, imbabywoman@yahoo.com

Description

Please forward this to anyone I missed. Thanks and see you soon!

Personal Notes



RE: NITHPO-Warwick Sewer - Bayside

Todd Ravenelle to: 'Burke Janine L'

Cc: Michael Stover

05/16/2012 10:12 AM

Janine,

Alan's rate is \$98.81/hour. However, PAL, Inc. is a non-profit. So a for profit rate, based on 10% profit industry standard, you could say \$108.69/hour.

FYI, Our top billing rate is \$134.16. That is based on an audited overhead rate with 10% profit.

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Senior Vice President
Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island 02860
Tel: 401.726.4084 | Fax: 401.728.1533

From: Burke Janine L [mailto:janine.l.burke@warwickri.com]
Sent: Wednesday, May 16, 2012 9:09 AM
To: Todd Ravenelle
Cc: Michael Stover
Subject: FW: NITHPO-Warwick Sewer - Bayside

Todd, can you please give me PAL's hourly rate for Alan Leveillee?

From: Michael Stover [mailto:Stover.Michael@epamail.epa.gov]
Sent: Wednesday, May 16, 2012 9:04 AM
To: Burke Janine L
Subject: RE: NITHPO-Warwick Sewer - Bayside

Janine, can you share with me what you are paying for Alan (hourly rate) for comparison? I will be discussing this with Lois this morning. I did learn that federal EPA funds can't pay for medicine man's salary.

thanks,

Mike

From: "Burke Janine L" <janine.l.burke@warwickri.com>
To: "Todd Ravenelle" <travenelle@graengs.com>
Cc: Michael Stover/R1/USEPA/US@EPA, "Owens Lynn" <lynn.owens@warwickri.com>

Date: 05/16/2012 08:34 AM
Subject: RE: NITHPO-Warwick Sewer - Bayside

Todd, hold off on this for now. We have a budget hearing scheduled for the next Board meeting and so all My Entourage will be out. I do not want to even broach this subject until I can get comfortable with it. Like I said, I need to be able to justify the spending of public monies on this effort.

Plan on the June meeting instead. Sorry. . . I hope you understand.

From: Todd Ravenelle [<mailto:travenelle@graengs.com>]
Sent: Tuesday, May 15, 2012 8:54 AM
To: Burke Janine L
Subject: RE: NITHPO-Warwick Sewer - Bayside

Janine

PAL's price is \$111,000. However, approximately, 50, 000 is for the machine contractor (backhoe and operator)

Todd Ravenelle, P.E.
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What was PAL's total price?

\$225 an hour? We don't pay legal counsel that much! I am going to review with EPA. I don't have a problem with the expense but I need to be able to justify it.

Thanks for the heads up, Todd.

From: Todd Ravenelle [<mailto:travenelle@graengs.com>]
Sent: Tuesday, May 15, 2012 8:27 AM
To: Burke Janine L
Subject: NITHPO-Warwick Sewer - Bayside

Janine,

FYI

I am working to complete the proposal.

Todd Ravenelle, P.E.
Senior Vice President
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From: NITHPO Harris [<mailto:dhnithpo@gmail.com>]

Sent: Tuesday, May 15, 2012 8:15 AM

To: travenelle@graengs.com

Subject: NITHPO-Warwick Sewer - Bayside

Greetings, Todd:

Attached please find the NITHPO Cost Proposal.

Doug Harris, Preservationist for Ceremonial Landscapes



RE: NITHPO-Warwick Sewer - Bayside

Burke Janine L to: Michael Stover

05/16/2012 09:20 AM

Todd will respond shortly, I know he is at his desk. So does this mean that EPA might be able to come up with at least some funds to assist with the archaeological study?

From: Michael Stover [mailto:Stover.Michael@epamail.epa.gov]

Sent: Wednesday, May 16, 2012 9:04 AM

To: Burke Janine L

Subject: RE: NITHPO-Warwick Sewer - Bayside

Janine, can you share with me what you are paying for Alan (hourly rate) for comparison? I will be discussing this with Lois this morning. I did learn that federal EPA funds can't pay for medicine man's salary.

thanks,

Mike

From: "Burke Janine L" <janine.l.burke@warwickri.com>

To: "Todd Ravenelle" <travenelle@graengs.com>

Cc: Michael Stover/R1/USEPA/US@EPA, "Owens Lynn" <lynn.owens@warwickri.com>

Date: 05/16/2012 08:34 AM

Subject: RE: NITHPO-Warwick Sewer - Bayside

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contractor (backhoe and operator)

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Doug Harris, Preservationist for Ceremonial Landscapes



FW: NITHPO-Warwick Sewer - Bayside

Burke Janine L to: Todd Ravenelle
Cc: Michael Stover

05/16/2012 09:11 AM

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To: Burke Janine L
Subject: RE: NITHPO-Warwick Sewer - Bayside

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To: "Todd Ravenelle" <travenelle@graengs.com>
Cc: Michael Stover/R1/USEPA/US@EPA, "Owens Lynn" <lynn.owens@warwickri.com>
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Subject: RE: NITHPO-Warwick Sewer - Bayside

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From: NITHPO Harris [<mailto:dhnthpo@gmail.com>]
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Doug Harris, Preservationist for Ceremonial Landscapes



RE: NITHPO-Warwick Sewer - Bayside

Burke Janine L to: Todd Ravenelle
Cc: Michael Stover, "Owens Lynn"

05/16/2012 08:34 AM

History:

This message has been replied to.

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Re: Fw: NITHPO-Warwick Sewer - Bayside
lois adams to: Michael Stover

05/15/2012 04:33 PM

Yes...let's talk. We need to get a comparative rate.

On Tue, May 15, 2012 at 3:42 PM, Michael Stover <Stover.Michael@epamail.epa.gov> wrote:

Yikes. Let's discuss tomorrow.

----- Forwarded by Michael Stover/R1/USEPA/US on 05/15/2012 03:41 PM -----

From: "Burke Janine L" <janine.l.burke@warwickri.com>
To: Michael Stover/R1/USEPA/US@EPA
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Mike, what do you think about this?

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Attached please find the NITHPO Cost Proposal.

Doug Harris, Preservationist for Ceremonial Landscapes(*See attached file: THP-scan-Warwick Sewer - Bayside Cost Proposal, 5-15-12.pdf*)



FW: NITHPO-Warwick Sewer - Bayside

Burke Janine L to: Michael Stover

05/15/2012 03:51 PM

History:

This message has been forwarded.

This is where we are going to get some resistance I think. . . I know my Board is going to balk at paying the Narragansetts more than the archaeologist.

From: Todd Ravenelle [<mailto:travenelle@graengs.com>]

Sent: Tuesday, May 15, 2012 8:54 AM

To: Burke Janine L

Subject: RE: NITHPO-Warwick Sewer - Bayside

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Doug Harris, Preservationist for Ceremonial Landscapes



RE: NITHPO-Warwick Sewer - Bayside

Burke Janine L to: Michael Stover

05/15/2012 03:45 PM

Yikes is right. I will forward you the email exchange I had with my engineer for some perspective. . .

From: Michael Stover [mailto:Stover.Michael@epamail.epa.gov]

Sent: Tuesday, May 15, 2012 3:43 PM

To: Burke Janine L

Subject: Fw: NITHPO-Warwick Sewer - Bayside

yikes!

----- Forwarded by Michael Stover/R1/USEPA/US on 05/15/2012 03:42 PM -----

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Senior Vice President

Gordon R. Archibald, Inc.

Civil and Environmental Engineers

Pawtucket, Rhode Island 02860

Tel: 401.726.4084 | Fax: 401.728.1533

From: NITHPO Harris [mailto:dhnithpo@gmail.com]

Sent: Tuesday, May 15, 2012 8:15 AM

To: travenelle@graengs.com

Subject: NITHPO-Warwick Sewer - Bayside

Greetings, Todd:

Attached please find the NITHPO Cost Proposal.

Doug Harris, Preservationist for Ceremonial Landscapes



Bayside Sewers

Fri 06/08/2012 10:00 AM - 12:00 PM

Attendance is **required** for Michael Stover

Chair: janine.l.burke@warwickri.com

Location: WSA Conference Room

Required:

lynn.owens@warwickri.com, Michael Stover/R1/USEPA/US, Aleveillee@PALINC.COM, janine.l.burke@warwickri.com, mathew.j.solitro@warwickri.com, dhnithpo@gmail.com, imbabywoman@yahoo.com, charlotte.taylor@preservation.ri.gov, ondkaohdt@gmail.com,

Description

Personal Notes



Rescheduled: Meeting on Bayside Sewers

Fri 04/27/2012 10:00 AM - 12:00

PM

Attendance is **required** for Michael Stover

Chair: **janine.l.burke@warwickri.com**

Location: WSA Conference Room

This reschedule notice has been applied to the meeting.

Required:

lynn.owens@warwickri.com, Michael Stover/R1/USEPA/US, Aleveillee@PALINC.COM,
janine.l.burke@warwickri.com, mathew.j.solitro@warwickri.com, dhnitpo@gmail.com,
imbabywoman@yahoo.com, charlotte.taylor@preservation.ri.gov, ondkaohdt@gmail.com,

Description

Sorry, I forgot to send out an appointment for the next meeting. Alan will most likely be unable to attend however he is working with Todd on a proposal to continue the archaeological study on Tidewater as discussed. I would suggest we focus on discussing that proposal at the next meeting so that we can present something to my Board of Directors at their May meeting.



Meeting on Bayside Sewers

Fri 04/27/2012 10:00 AM - 12:00 PM

Attendance is **required** for Michael Stover

Chair: janine.l.burke@warwickri.com

Location: WSA Conference Room

Required:

lynn.owens@warwickri.com, Michael Stover/R1/USEPA/US, Aleveillee@PALINC.COM, janine.l.burke@warwickri.com, mathew.j.solitro@warwickri.com, dhnitpo@gmail.com, imbabywoman@yahoo.com, charlotte.taylor@preservation.ri.gov, ondkaohdt@gmail.com,

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Personal Notes



RE: Next Bayside Archaeology Meeting?

Todd Ravenelle to: 'Burke Janine L', 'Alan D. Leveillee'
Cc: "'Owens Lynn'", Michael Stover

04/18/2012 08:30 AM

History:

This message has been replied to.

Janine,

I would suggest we meet on April 27th at 10AM. I would recommend holding off with a proposal until the May meeting. I do not have Doug's information, and I will be out of the office most of today and tomorrow. Also, I recommend some discussion on the construction costs and fees. We have developed two estimates for construction to assist PAL, Inc.; one based on D'Ambra's on-call unit prices (\$350K), and one based on RIDOT standard unit prices (\$150K). The price difference is big.

Thanks

Todd Ravenelle, P.E.
Senior Vice President
Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island 02860
Tel: 401.726.4084 | Fax: 401.728.1533

From: Burke Janine L [<mailto:janine.l.burke@warwickri.com>]
Sent: Wednesday, April 18, 2012 8:00 AM
To: Alan D. Leveillee
Cc: Owens Lynn; Stover.Michael@epamail.epa.gov; Todd Ravenelle
Subject: RE: Next Bayside Archaeology Meeting?

I'm pretty sure we said April 27th and I was assuming the same time (10 AM). But let me double check my notes and I will send something out seeing if people could make it after lunch instead to accommodate your busy schedule.

I don't think Todd has seen a proposal from the Narragansetts yet and the plan was to present something to the Board under GRA's contract to proceed with additional archaeological work. I am going to need that soon or it will have to wait until the May meeting.

From: Alan D. Leveillee [<mailto:Alveillee@PALINC.COM>]
Sent: Wednesday, April 18, 2012 7:57 AM
To: Burke Janine L
Subject: Next Bayside Archaeology Meeting?

Hi Janine,

I haven't seen a meeting invitation for our next Bayside Archaeology / Sewers meeting. I remember we talked about the last week in April, but what day / time did we target?

On Thursday April 26, I'm not available. On Friday April 27, I'm tied up until after lunch, but available in the mid-afternoon.

Thanks,

Alan

Alan Leveillee, MA, RPA
Senior Archaeologist
aleveillee@palinc.com

PAL

Cultural Resource Management

210 Lonsdale Avenue
Pawtucket, RI 02860

401.728.8780 main
401.728.8784 fax
401.288.6315 direct
401.487.0861 cell
www.palinc.com

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RE: Next Bayside Archaeology Meeting?

Burke Janine L to: Alan D. Leveillee

Cc: "Owens Lynn", Michael Stover, "Todd Ravenelle"

04/18/2012 08:02 AM

I'm pretty sure we said April 27th and I was assuming the same time (10 AM). But let me double check my notes and I will send something out seeing if people could make it after lunch instead to accommodate your busy schedule.

I don't think Todd has seen a proposal from the Narragansetts yet and the plan was to present something to the Board under GRA's contract to proceed with additional archaeological work. I am going to need that soon or it will have to wait until the May meeting.

From: Alan D. Leveillee [mailto:Aleveillee@PALINC.COM]

Sent: Wednesday, April 18, 2012 7:57 AM

To: Burke Janine L

Subject: Next Bayside Archaeology Meeting?

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Thanks,

Alan

Alan Leveillee, MA, RPA

Senior Archaeologist

aleveillee@palinc.com

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your email system. Thank you.



Re: Fw: 23 Pender Avenue
lois adams to: Michael Stover

04/06/2012 08:08 PM

History:

This message has been replied to.

I am pleased as well. However, this project has been stalled for so long....any movement is better than the stagnation she experienced while I waited for Michael Sullivan to leave me high and dry, doing nothign with Alycia [et.al](#).

On Fri, Apr 6, 2012 at 8:56 AM, Michael Stover <Stover.Michael@epamail.epa.gov> wrote:

FYI... Janine is pleased with the progress we are making.

Mike Stover, PE
Indian Program Manager
EPA - New England, Region 1
5 Post Office Square, Suite 100
Mail Code OEP06-3
Boston, MA 02109-3912
[\(617\) 918-1123](tel:(617)918-1123)
stover.michael@epa.gov

----- Forwarded by Michael Stover/R1/USEPA/US on 04/06/2012 08:56 AM -----

From: "Burke Janine L" <janine.l.burke@warwickri.com>
To: <jonathan.zwarg@dem.ri.gov>
Cc: "Owens Lynn" <lynn.owens@warwickri.com>, "Russ Chateaufneuf" <russell.chateaufneuf@DEM.RI.GOV>, "Solitro Mathew J" <mathew.j.solitro@warwickri.com>, Michael Stover/R1/USEPA/US@EPA
Date: 04/05/2012 04:02 PM
Subject: 23 Pender Avenue

Hi Jon, I left you a message promising to send you more detailed information about the situation with 23 Pender Avenue.

The property is located in our **Bayside I** project area which is riddled with archaeological features (see attached). We have been making some excellent progress in our discussions with the Narragansett Indians and EPA to move the Bayside projects forward. If there is any area in the City that needs sewers, this is it. The concentration of houses, the small lot sizes, the groundwater and soil conditions all point to sewers as the best solution and I plan to keep pushing these projects .

The problem in this case is they had their cesspool inspected per the Cesspool Phaseout and it failed . The lot is less than 5,000 square feet so if they have to replace their system , it could be costly. I don't think they would have a problem installing a new system if they could be assured that they will get a good chunk of useful life out of it before we extend sewers and make them tie-in. Our enabling legislation allows for a deferral of payment on a sewer assessment if an on-site system was installed 7 years (or less) prior to sewers coming through. I have also used that logic to allow limited deferrals of mandatory sewer connections. I can put that in writing to them if they do indeed have to replace their system so everyone will be clear about what will happen when sewers are installed . But I was just wondering if there are any other options ?

Janine L. Burke, Executive Director
Warwick Sewer Authority
125 Arthur W. Devine Boulevard
Warwick, RI 02886
[\(401\) 738-0354](tel:4017380354)
<http://www.warwickri.gov/wsa>



(See attached file: 998DESGNMASTER10-09 Bayside.pdf)



RE: Bayside - Design Articles

Burke Janine L to: Todd Ravenelle

Cc: Michael Stover, "Solitro Mathew J", aleveillee

03/28/2012 03:29 PM

Interesting. . . I have been doing some research on top-notch universities for cutting-edge collection system technologies. I recognized one of the authors cited in that directional drilling article – Erez Allouche who is an assistant professor of civil engineering at the Louisiana State University which also houses the Trenchless Technology Center. They have this computerized trenchless assessment guide which includes 20 trenchless and 2 open-cut technologies that you can evaluate for your specific project. All cool stuff! Thanks for sharing, Todd.

From: Todd Ravenelle [mailto:travenelle@graengs.com]

Sent: Wednesday, March 28, 2012 2:31 PM

To: Burke Janine L

Cc: Stover.Michael@epamail.epa.gov; Solitro Mathew J; aleveillee@palinc.com

Subject: Bayside - Design Articles

Janine,

Attached is information on directional drilling and On-site Wastewater Treatment.

Todd Ravenelle, P.E.

Senior Vice President

Gordon R. Archibald, Inc.

Civil and Environmental Engineers

Pawtucket, Rhode Island 02860

Tel: 401.726.4084 | Fax: 401.728.1533



Bayside sewers

Fri 03/30/2012 10:00 AM - 11:30 AM

Attendance is **required** for Michael Stover
Chair: lynn.owens@warwickri.com

Location: WSA Conference Room

Required:

travenelle@graengs.com, Michael Stover/R1/USEPA/US, Aleveillee@PALINC.COM, janine.l.burke@warwickri.com, mathew.j.solitro@warwickri.com, dhnitpo@gmail.com, imbabywoman@yahoo.com, charlotte.taylor@preservation.ri.gov, ondkauohdt@gmail.com

Description

Continued discussions on sewer service in the Bayside area.

Lynn F. Owens, on behalf of
JANINE L. BURKE
EXECUTIVE DIRECTOR
WARWICK SEWER AUTHORITY
125 Arthur W. Devine Blvd.
Warwick, RI 02886
(401) 468-4700

Personal Notes



Bayside Sewer Archaeological meeting

Fri 03/02/2012 10:00 AM - 11:00 AM

Attendance is **required** for Michael Stover
Chair: lynn.owens@warwickri.com
Location: Warwick Sewer Authority

Required:	travenelle@graengs.com, Michael Stover/R1/USEPA/US, Aleveillee@PALINC.COM, janine.l.burke@warwickri.com, mathew.j.solitro@warwickri.com, dhnitpo@gmail.com, imbabywoman@yahoo.com, charlotte.taylor@preservation.ri.gov
Optional:	pginaitt@gmail.com, pginaitt@lifespan.org

Description

Continued discussions on sewer main installation and archaeological impacts.

Lynn F. Owens, on behalf of
JANINE L. BURKE
EXECUTIVE DIRECTOR
WARWICK SEWER AUTHORITY
125 Arthur W. Devine Blvd.
Warwick, RI 02886
(401) 468-4700

Personal Notes

